

WHAT IS CLAIMED IS:

1. A copying apparatus for copying an image read from an original having a long side and a short side to a recording medium, the copying apparatus comprising:

5 a first original placement section with a predetermined orientation of the long and short sides of the original to be placed;

a second original placement section with a predetermined orientation of the long and short sides of the original to be
10 placed;

a feeder that transports the original from the first original placement section;

an image read section that reads the image from the original that has been transported from the first original placement
15 section while the image read section is stationary or from the original that has been placed on the second original placement section while the image read section is moved relative to the original;

a storage section that stores data of the image read by
20 the image read section;

a detection section that detects which of the first and second original placement sections the original is placed in;

an image orientation specifying section that specifies whether the top and bottom orientation of the image of the original
25 placed in the first or second original placement section is in

parallel with the long side of the original or in parallel with the short side of the original;

an image formation section that forms the image on the recording medium; and

5 a control section that causes the image formation section to form the images of a plurality of originals read by the image read section on one side of one recording medium in a predetermined layout based on the detection result of the detection section and the specification of the image orientation specifying
10 section.

2. The copying apparatus as claimed in claim 1, wherein the image read section reads the image by scanning.

15 3. The copying apparatus as claimed in claim 2, wherein a scanning direction, which is parallel with the orientation of the short side of the original, of the image read section when an original is placed in the first original placement section differs from a scanning direction, which is parallel with the
20 orientation of the short side of the original, of the image read section when an original is placed in the second original placement section.

4. The copying apparatus as claimed in claim 2, wherein a
25 subscanning direction of the image read section parallel with

the orientation of the long side of the original when the original is placed in the first original placement section is opposite to a subscanning direction of the image read section parallel with the orientation of the long side of the original when the original is placed in the second original placement section.

5. The copying apparatus as claimed in claim 1, wherein the image read section reads the images of a plurality of originals while scaling down the images at a predetermined scaling factor and the control section causes the image formation section to form the images of the plurality of originals read by the image read section on one side of one recording medium in a predetermined layout.

6. The copying apparatus as claimed in claim 1, wherein the control section scales down the images of the plurality of originals read by the image read section at a predetermined scaling factor and causes the image formation section to form the images on one side of one recording medium in a predetermined layout.

7. The copying apparatus as claimed in claim 1, wherein the control section selectively causes the image formation section to form the images of two originals read by the image read section on one side of one recording medium in a predetermined layout and causes the image formation section to form the images of

four originals read by the image read section on one side of one recording medium in a predetermined layout.

8. The copying apparatus as claimed in claim 7, wherein when
5 a plurality of originals are transported in order from the first original placement section by the feeder and the control section causes the image formation section to form the images of two originals read by the image read section on one side of one recording medium in the predetermined layout, the control section
10 rotates the two images in a different direction depending on whether the top and bottom orientations of the two images are parallel with the long side or the short side of the original, and causes the image formation section to form the rotated two images on one side of one recording medium.

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9. The copying apparatus as claimed in claim 7, wherein when a plurality of originals are placed in the second original placement section in order and the control section causes the image formation section to form the images of two originals read
20 by the image read section on one side of one recording medium in the predetermined layout, the control section rotates the two images in the same direction regardless of whether the top and bottom orientations of the two images are parallel with the long side or the short side of the original, and causes the image
25 formation section to form the rotated two images on one side

of one recording medium.

10. The copying apparatus as claimed in claim 7, wherein when
a plurality of originals are transported in order from the first
5 original placement section by the feeder and the control section
causes the image formation section to form the images of four
originals read by the image read section on one side of one
recording medium in the predetermined layout, the control section
does not rotate the four images regardless of whether the top
10 and bottom orientations of the four images are parallel with
the long side or the short side of the original, and causes the
image formation section to form the four images on one side of
one recording medium.

15 11. The copying apparatus as claimed in claim 7, wherein when
a plurality of originals are placed in the second original
placement section in order and the control section causes the
image formation section to form the images of four originals
read by the image read section on one side of one recording medium
20 in the predetermined layout, if the top and bottom orientations
of the four images are parallel with the long side of the original,
the control section does not rotate the four images and causes
the image formation section to form the four images on one side
of one recording medium and if the top and bottom orientations
25 of the four images are parallel with the short side of the original,

the control section rotates the four images 180° and causes the image formation section to form the rotated four images on one side of one recording medium.

5 12. A method of operating a copying apparatus including a image read unit to read an image from an original having a long side and a short side placed in a first original placement section or a second original placement section with a predetermined orientation, and an image formation unit to form the image on
10 a recording medium, the method comprising the steps of:

detecting step of detecting which of the first and second original placement sections the original is placed in;

specifying step of specifying whether the top and bottom orientation of the image of the original is in parallel with
15 the long side of the original or in parallel with the short side of the original;

reading step of reading the image from the original; and

forming step of forming the images of a plurality of originals read by the reading step on one side of one recording
20 medium in a predetermined layout based on the detection result and the specification.

13. The method according to claim 12, wherein the forming step includes forming the images of two originals read by the reading
25 step on one side of one recording medium in a predetermined layout

and forming the images of four originals read by the reading step on one side of one recording medium in a predetermined layout.

14. The method according to claim 13, wherein the forming step
5 includes rotating the images of originals read by the reading step and forming the images on one side of one recording medium in a predetermined layout based on the detection result, the specification and the number of images to be formed on the one recording medium.

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15. The method according to claim 14, wherein the reading step includes reading the image from the original while scaling down the image at a predetermined scaling factor.

15 16. The method according to claim 14, wherein the forming step includes scaling down the images of the originals read by the reading step at a predetermined scaling factor.